

ADDENDUM FOUR

BLACKFEET COMMUNITY HOSPITAL
EXPANSION & RENOVATION
PHASES 1 & 2
BROWNING, MONTANA

CONTRACT: 102-96-0005
ORDER: 006
PROJECT: BI7BF079H7

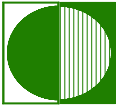
LAO No. C168

PREPARED FOR
DHHS/PHS/IHS/ENGINEERING SERVICES
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ADDENDUM FOUR

BLACKFEET COMMUNITY HOSPITAL

Expansion and Renovation – Phases 1 & 2

Browning, Montana

C168

Modify the drawings and specifications for the BLACKFEET COMMUNITY HOSPITAL, Expansion and Renovation, Phases 1 and 2, dated 19 July 1999 to reflect the following items. Incorporate these changes, clarifications, and additions into the contract documents and bids for this project.

PART 1: SPECIFICATIONS

- A. 07160 BITUMINOUS DAMPPROOFING. For clarification of foundation dampproofing requirements, refer to the attached specification section.
- B. 13090 RADIATION PROTECTION. Add subsection 2.1.C.3 as follows.
 - 3. Lead Thickness: Not less than 1/16 inch (2 mm) unless otherwise recommended by the Owner.

PART 2: DRAWINGS

- A. 1/A8.1 WALL ASSEMBLY TYPE 1. The note "½" (13) RIGID INSULATION" identifies ½" expanded polystyrene (EPS) board insulation.
- B. M1.2 GRILLES, REGISTERS & DIFFUSERS SCHEDULE. Sizes for supply and return diffusers, grilles, and registers should be obtained from sheet M1.2. Quantities should be obtained from sheet M1.3. Please, note that all diffusers or grilles of the same type (SD-1 for example) will have the same duct size connection.
- C. M1.2 GRILLES, REGISTERS & DIFFUSERS SCHEDULE. Nominal face size for EG-1 should be listed as 12" x 8" (300 x 200).
- D. M1.2 GRILLES, REGISTERS & DIFFUSERS SCHEDULE. Nominal face size for EG-2 should be listed as 24" x 24" (600 x 600) and should have a note 4 in the remarks column.
- E. M1.3 NOTES. Note 1 should read "REFER TO NOTES ON SHEET M2.1 FOR ADDITIONAL INFORMATION ON AIRFLOW AND DUCT CONNECTION SIZES" and should be considered a general note.

SECTION 07160 - BITUMINOUS DAMPPROOFING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Cold-applied, asphalt emulsion dampproofing.

1.3 SUBMITTALS

- A. General: Submit each item in this Article according to the Conditions of the Contract and Division 1 Specification Sections.
- B. Product data for each type of product specified, including data substantiating that materials comply with requirements for each dampproofing material specified. Include recommended method of application, recommended primer, number of coats, coverage or thickness, and recommended protection course.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Engage an experienced Installer who has completed bituminous dampproofing similar in material, design, and extent to that indicated for this Project and with a record of successful in-service performance.



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- B. Single-Source Responsibility: Obtain primary dampproofing materials and primers from one source and by a single manufacturer. Provide secondary materials only as recommended by manufacturer of primary materials.

1.5 PROJECT CONDITIONS

- A. Substrate: Proceed with dampproofing only after substrate construction and penetrating work have been completed.
- B. Weather Limitations: Proceed with dampproofing only when existing and forecasted weather conditions will permit work to be performed according to manufacturer's recommendations and warranty requirements.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the Work include, but are not limited to:
 - 1. Cold-Applied, Asphalt Emulsion Dampproofing:
 - a. ChemRex, Inc.; Sonneborn Building Products Div.
 - b. Euclid Chemical Co.
 - c. Karnak Chemical Corporation.
 - d. Koppers Industries, Inc.
 - e. Meadows: W.R. Meadows, Inc.

2.2 BITUMINOUS DAMPPROOFING

- A. General: Provide products recommended by manufacturer for designated application.

- B. Cold-Applied, Asphalt Emulsion Dampproofing: Asphalt-based emulsions recommended by the manufacturer for dampproofing use when applied according to the manufacturer's instructions.
 - 1. Spray Grade: Emulsified asphalt, prepared with mineral-colloid emulsifying agents without fibrous reinforcement, complying with ASTM D 1227, Type III.

2.3 MISCELLANEOUS MATERIALS

- A. Glass Fabric: Woven glass fabric, treated with asphalt, complying with ASTM D 1668, Type I.
- B. Protection Course, Board Type: One-inch (25 mm) thick expanded polystyrene board (EPS) insulation.



PART 3 - EXECUTION

3.1 PREPARATION

- A. Clean substrate of projections and substances detrimental to work; comply with recommendations of prime materials manufacturer.
- B. Install cant strips and similar accessories as recommended by prime materials manufacturer.
- C. Fill voids, seal joints, and apply bond breakers, if any, as recommended by prime materials manufacturer, with particular attention at construction joints.
- D. Install separate flashings and corner protection stripping, as recommended by prime materials manufacturer, where indicated to precede application of dampproofing. Comply with details shown and with manufacturer's recommendations. Pay particular attention to requirements at building expansion joints, if any.
- E. Protection of Other Work: Do not allow liquid and mastic compounds to enter and clog drains and conductors. Prevent spillage and migration onto other surfaces of work by masking or otherwise protecting adjoining work.

3.2 INSTALLATION, GENERAL

- A. Comply with manufacturer's recommendations except where more stringent requirements are indicated and where Project conditions require extra precautions to ensure satisfactory performance of work.
- B. Application: Apply dampproofing to the following surfaces.
 - 1. Exterior, below-grade surfaces of exterior concrete or masonry walls in contact with earth or other backfill and where space is enclosed on opposite side.

- C. Reinforcement: At changes in plane or where otherwise shown as "reinforced," install lapped course of glass fabric in first coat of dampproofing compound before it thickens.
- D. Apply vertical dampproofing down walls from finished-grade line to top of footing, extend over top of footing, and down a minimum of 6 inches (150 mm) over outside face of footing. Extend 12 inches (300 mm) onto intersecting walls and footings, but do not extend onto surfaces exposed to view when the Project is completed.



3.3 COLD-APPLIED, ASPHALT EMULSION DAMPPROOFING

- A. Spray Grade: Brush or spray apply a coat of asphalt emulsion dampproofing at a rate of 1.5 to 2.5 gal./100 sq. ft. (0.6 to 1 L/sq. m), depending on substrate texture, to produce a uniform, dry-film thickness of not less than 15 mils (0.4 mm). Apply in 2 coats, if necessary, to obtain required thickness, allowing time for complete drying between coats.

3.4 PROTECTION AND CLEANING

- A. Protect exterior, below-grade dampproofing membrane from damage until backfill is completed. Remove overspray and spilled materials from surfaces not intended to receive dampproofing.

3.5 INSTALLATION OF PROTECTION COURSE

- A. General: Install protection course of type indicated over completed-and-cured dampproofing treatment. Comply with dampproofing materials manufacturer's recommendations for method of support or attaching of protection materials.

END OF SECTION 07160